JAN 87

NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

1936 - 1987

THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

VOL. XXII, NO., 1 JANUARY, 1987

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Bob Brehm, KB6QC, Carlsbad 931-8759
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

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---PRESIDENT'S MESSAGE---

REPEATER SITE

We are now within $150 of paying off the note. If all goes well, we can burn the note at our January or February meeting.

NEW OFFICER

Bob Brehm, KB6QC, is our new Vice President. He is looking for suggestions for future programs for our club meetings, so be sure to get your suggestions and comments to Bob so we can plan for 1987.

IN APPRECIATION

Phil Schutze, K6ROR, has been the operator of the "Gi'nt Computer" for the past many years, and he has performed his job faithfully, keeping the Club computer records up to date. Phil, the Club thanks you for all of your efforts over the past years and we hope to see you at some of our meetings soon.

Larry de Montegre, WQ6V, has been our more-than-faithful Vice President these past two years and has always been at my right hand whenever I needed him. Thanks, Larry for a job "well done".

Thanks also to Vina (WQ6V's XYL) for her excellent work with the refreshments. (We're going to need a replacement for Vina after the January meeting.) Many thanks also to Bill Buckner, WW6E, and to his XYL Mary, N6NOG, for taking care of the prizes. (Their help too will be missed after January.)

MEMBERSHIP

Our membership is now 311, which is 29 more than last year at this time. We appreciate the help that many of you have given us by extending membership invitations to your friends and to people to whom you talk on the repeaters. Some of our good public relations people on 146.730 are not presently available, so we certainly would like to see some of you extend the hand of friendship to the new people whom you hear on the repeater. Remember, club membership supports amateur radio in the area through packet, microwave, traffic, and ARES nets; voice and packet repeaters; Field Day, etc. It is not necessary to attend meetings to be a club member.

NEW DIRECTIONS

In what direction would you like to see the Club move? What kind of projects do you think our club should be working on for the next five years? Be sure to bring your ideas to the January club meeting.

73 de Stan, W9FQN

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CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.
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JANUARY CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE: A talk on locating and troubleshooting powerline and power line-carried RFI by Mr. Frank Van Avery of San Diego Gas and Electric Company. Mr. Van Avery is SDG&E's head man in the power line noise location business. This is one that none of us should miss! Maybe it'll solve my Channel 2 problems.

COFFEE AND GOODIES: Vina's last turn at making the coffee and overseeing the table full of no-cal goodies that we all are going to bring.
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MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is $12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are $12 for the first, and $9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are $3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

DECEMBER CLUB MEETING

At the December club meeting we held our annual Christmas party. The food was delicious - burritos and tostadas with lots of other goodies, including chips, salsa and guacamole; cake, pie, cookies, and other mouth watering delicacies. WQ6V and Vina did the major chore of the burritos and the tostadas and many others brought goooood things to eat. WF6L provided the music and many others of us brought computers and packet gear for copying programs and for demonstration. It was a very festive evening with lots of chance to have those eyeball QSOs (unless you were stuck at a computer or packet station).

WI6B told us we were nearly over the top on paying off the note on the mountain top property. The new slate of officers listed in the masthead was elected to office. Larry, WQ6V, was thanked for his faithful service as Vice President. We voted to affirm the motion before SANDARC to support with a $1,000 donation, the defense efforts of a western ham in his fight against restrictive tower laws.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the December meeting, which was held at the home of Ron, WI6B, the Committee decided to: publish a club roster to be handed out at the January and February club meetings; start a training program. W9FQN reported that the Club's representatives to SANDARC for the new year would be: W9FQN, WF6L, N6GZI, and W6SAX; that the remainder of the WD6ENK estate radio gear had been donated to the Club. The possibility of constructing a structure to house the repeaters' emergency power batteries and the generator was discussed, as was the continuing problem with the intrusion of the signal from K0JPK/R into San Diego County. The Committee had a look at the generator donated to the Club by Merit

Arnold, W6NLO, of WESTCOM to see what may be required to refurbish and repair it for future use after the Animal Control people get the wildlife out of it.

REPEATER SITE MORTGAGE

As indicated in W9FQN's column, the balance owed on the repeater site note is now less than $200 with about six more $35 contributions needed to finish it off so that Stan can hold that mortgage burning ceremony he's been promising us. That will do the job once and for all. We have had a phenomenal response (nearly 50% of the Club's membership, and the unlicensed XYL of our one Oxnard club member, have responded to the President's letter requesting donations). We were helped by the proceeds from the sale of the Amateur Radio Postage Stamp pins and by money from the Treasury which would have ordinarily been used to make the monthly mortgage payments. But largely our $9,000 debt has been payed by our club members - to the tune of over $6,000! You can really be proud of your club; and of the response of its concerned members. Thanks to all of US who did the job so well and so quickly. We stood up and were counted!! Everyone who uses any of the PARC repeaters owes us a vote of thanks.

EXPIRING FCC LICENSES

Licenses expiring in some unstated month of 1987: N6GSS. In January: NG6Z, N6IE, W6JSP, W2FWV, W9KEX. In February: WB6WGT, K6CLU. In March: W6OMM.

To be reminded of your license expiration month/year, it must be in the Computer. 610 forms are available from the FCC and, for club members only, from the PARC Secretary.

FORESAIL

(The halyard, ya say!)

Yaesu FT-225RD all mode 2M base station w/Yaesu YD-849A mike $325; Kenwood R-1000 gen. cov. rx $250; Mirage B108 10-80W 2M amp $125; Mirage B1016 10-160W 2M amp $200; Daiwa CNA-2002 2.5KW auto. ant. tuner $250; Tentec Triton IV 200W hf xcvr w/245 CW filter, 249 Noise Blanker, 244 Digital Readout, 255 12VDC 18 amp pwr supply, and Astatic 1104C mike $450; RCA WR64A Color Bar/Dot/Crosshatch Generator $35; Astron RS-35A pwr supply $85. Call Ralph, K6HAV, 727-5866.

Drake TR-7 xcvr w/pwr supply, voice processor, and spkr. All filters and noise blanker installed. $500. Call Lloyd, W6TFB, 757-9374

KLM Twister 2M cir. polarized antenna, $50. Call Buck, WW6E, 941-0867.

Drake R-4 rx, T-4X tx w/pwr supply, all appropriate cables. Will operate all new freqs. Asking $250. Call Arnie, WA7BIA, 942-1166.

Kenwood TS-520 HF xcvr w/cw filter, manual, factory re-tweaked, make offer. Call Fred, W6UAP, 747-3074.

From the estate of W6HAW: Late model Atlas 210X, $175; Westcom 2M 15/80W amp, $100; Tristao CT840588 5-section 88'guyed crank-up tower w/guy lines, $800; Hy-Gain TH-7 tri-band antenna, $400; Telrex 40M329 3-elm 40M beam, $600; Hy-Gain 5-elm 20M beam, $250; Loads of small stuff: Miller low pass filter, Heath remote coax switch, Siltronix watt/swr meter, Hustler mobile antenna, Hustler BTV-5 5-band vertical ant., 300' of 8-conductor rotator cable, Saxon 8283 RG-8/U foam coax, coax switches, Swan Mobile antenna etc. Call Buck, WW6E, 941-0867.

Three 4' fiberglass microwave dishes w/ mount in xlnt condx, $100 ea. One 5' green fiberglass dish, no mount, $75. Call Larry, WQ6V, 726-0353.

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Drake TR4C, VFO, pwr supply, and Shure 440SL mike w/all manuals. Clean, $225. Call Hal, W6DOL, 271-5939.

Realistic Pro-77A VHF police/fire scanner, as new, $45; 500W dry-type dummy load, $20; Cantenna dummy load, $15; 6-position B & W 575 coax switch mounted in box, $18; new Hi-Q balun, $10; Hallicrafters SX-111 rx, $40. Call Duane, AA6EE, 789-3674 (evenings).

Hy-Gain 204BAS 4-elm. 20M beam w/stainless steel hardware, Mosely 2-elm. 40M beam, Tristao 354HD 54' self-supporting crankup tower, prop pitch motor antenna rotor w/mast coupling and control unit. Call Otto Miller, W6PT, 727-0086.

1) Commodore 1541 disc drive, 9" BPF scope, pwr supply. 2) Kantronics terminal unit, manuals and cables, Multi 2000 all mode, Yaesu mike, Ringo Ranger ant., manuals, 100' RG8/U. 3) Mosley 3-elm beam, CDE rotor, 95' of 10-wire control cable. Complete groups only. Call Wil, W2FWV, 436-3277.

Johnson Matchbox KW antenna tuner w/swr meter. Call Ralph, K6HAV, 727-5866.

Drake TR-4 HF xcvr w/home brew pwr supply; Drake RV-4 remote VFO; Drake MC-4 mobile spkr & watt meter; Drake DC-4 mobile pwr supply; Ameco rcvr pre-amp; Home brew 2KW PEP GG linear amp. w/pair of 4-400s and spares and pwr supply; and all cables and manuals for Drake equipment; Heath monitor scope. Call Bill Welsh, W6TIW, 439-6526.

Tempo S-5 2M HT, $90. ALL CLUB ITEMS: Heathkit Apache TX-1 HF tx, $30; Gonset 6N2 tx, $10; Heath SB-401, HF tx $??; Hallicrafter S-120, rx $25; Heathkit SB-100 HF xcvr, $100; Heath SB-102 HF xcvr, $125; Drake TR-3 HF xcvr w/A.C. & D.C. pwr supplies, $125; Heath HW-2036 2M xcvr, $90; Heathkit GR-78 gen. coverage rx, $??; SWR bridges, $10-$20; test equipment (o'scopes, sig gens, tube testers, etc); and tubes, components, and quality items. Parts by the bucketful, cheap, cheep. All Club items. Talk to W9FQN at 749-0276.

WANTED

Pair of 572B tubes, duplexer, 430 & 440 mHz units for Yaesu 726R. Call Ron, WI6B, 756-3133.

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.

Ham software for Apple IIe; to borrow QEX for 7/86 & 9/86. Call Duane, AA6EE, 789-3674.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Clint Call, W6OFT, to Advanced with code credit for 20WPM; Doug McCartney, N6MMD, to Advanced. Congratulations.

GNU CLUB MEMBERS: Doug McCartney, N6MMD, Carlsbad; Jay Burritt, K6MRK, Poway; Chet Atlas, K6MSF, Olivenhein; Lynn Stacy, Escondido; Stephen Smith, KD0D, Oceanside. Welcome, we're glad to have you with us.

RE-NUDE MEMBERS: K7HOE, and W6SMP, who has moved back from the Palm Springs area into Rancho Bernardo the year round; WA7GRW & KA7PII, who have regnued for 1987-1988.

GNU/CHANGED CALLSIGNS: Marni Parker (XYL of W6SAX), KB6PCF, from no license. Congratulations to the Parker family.

FROM THE ARRL LETTER

The FCC reiterated its stand on coordinated vs. uncoordinated repeaters when Ray Kowalski, Chief of the Special Services Division of the Private Radio Bureau said in part: "Stations which operate with illegitimate repeater coordination do so at their peril." "And it is the licensees of

these repeaters - not the coordinators - who risk sanctions if interference occurs."

A private company is sending official-looking literature to amateurs offering assistance with their license renewal, and it is possible some amateurs may think the literature is from FCC. The catch is that the fee the private company charges for this service is $50. The FCC, of course, charges no fee and the 610 forms are available free from the FCC, the ARRL for a S.A.S.E., and from your club secretary.

6th Area call signs issued as of 11/1/86: WY6X, KI6MA, N6OLQ, KB6OOZ.

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FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m.

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at a place to be announced in Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed Form 610 (PHOTO-COPIES ARE NOT ACCEPTABLE) and a copy of license(s) and Certificate of Successful Completion, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92014 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants MUST BRING their ORIGINAL LICENSE AND CERTIFICATE OF SUCCESSFUL COMPLETION (if any) with them.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. Unfortunately, he does require money and also feels it only fitting that you provide him with your name and call sign if you want them on your very own badge. Too bad you missed the 50th year commemorative badge.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Wednesday of the week two weeks before the club meeting.

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VOLUNTEER EXAMINERS PROGRAM

At our December 13 test session we had a less than notable success rate, but we did have one new club member, Doug McCartney, N6MMD, who succeeded in up-grading to Advanced. Congratulations, Doug. We also had our first try at exams given on the computer. Paul, KB5MU, conducted this first (for us) try at it.

Our examiners were WW6E, WA6HYB, and W6HCD; with W6YYV and WA6KZN as proctors. W6DEY conducted the CW exams with an assist from KB5MU. KG6VX looked after reception and processing.

de Pat, N6INN

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THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third is a packet radio digipeater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT! Don't give the jammer what he or she craves - notice and attention.

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Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try and hear the interfering signal on the input of the repeater and, if possible, determine the direction from which it is coming.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 mHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net control stations and liaison stations are needed. Apply to Joe, WB6HMY.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 mHz each Tuesday at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control station.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 mHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: The El Cajon ARC ham-computer-electronics swap meet at the Santee Drive-in theater on Woodside Ave at Hwy 67 in Santee at 0700 on the first Saturday of the month.
The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the Gen. Dyn. parking lot east of Haven on Fourth Ave, starting at 0700.
The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month 0800.

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DOWN THE TOOBE

Leona and Carl Wallace sent along their Xmas newsletter with all of their activities detailed in it, along with a pic or two.
Thanks to George, K6YGK, we learn from an editorial in Nov/Dec '86 NARTE NEWS discussing Summer Interns in the telecommunications industry that: "We find that those that have had even an aquaintanceship with amateur radio are several steps ahead of those who have only had college as their exposure to the industry."

"That's all," she wrote.

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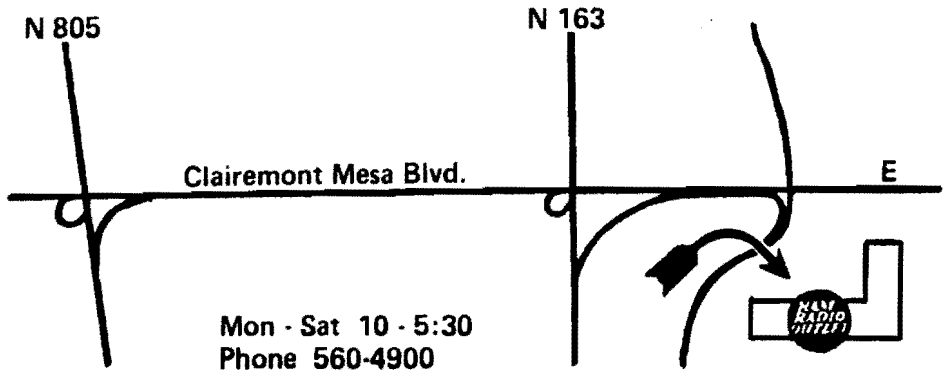

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While browsing . . don't forget to see the PACKET set-up using the Commodore 64 and the AEA interface. Let us demonstrate this fascinating mode for you.

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BYTES 'N PIECES

By Paul Williamson, KB5MU

Protocol wars: finally some software for real networking is beginning to appear. The debate between various ways to implement network and transport functions will heat up with implementation of both types appearing in the field.

Phil Karn, KA9Q, has completed software for the IBM PC and compatibles that implements the TCP/IP protocols for packet radio. These protocols provide network and transport services. Widespread use of these protocols would be one way to make a big step forward for the amateur packet network. The protocols are being tested on the air with good success in various parts of the country.

The "KISS TNC" is the latest tool for the protocol experimenters. The KISS (as in "Keep It Simple, Stupid") TNC is just a TNC-2 with additional RAM and a bootstrap loader in EPROM. The host computer then downloads the TNC's program into the TNC. This makes it much easier to change the way the TNC behaves, and is ideal for development of new protocols.

Ron Raikes, WA8DED, author of the WA8DED firmware for the TNC-1, has firmware for the TNC-2 (and clones) in alpha test on 145.09 mHz in Long Beach. This new firmware provides network and transport level functions, using the "virtual circuit" approach. Ron plans to equip several of the digipeaters on 145.09 (including K6KGS-1 on Pt. Loma) with the new firmware for beta test soon. This firmware also promises to be a big step forward for the network.

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